



TEST DATA OF ACE650F

(AC200V INPUT)

Regulated DC power supply
Jun. 21, 2003

Approved by : *K. Shibutani*
K. SHIBUTANI Design Manager

Prepared by : *M. Hamaguchi*
M. HAMAGUCHI Design Engineer

INPUT : AC 170~264V

コーセル株式会社
COSEL CO.,LTD.

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<p>Model ACE650F</p> <p>Item Input Current (by Load Current) 入力電流 (負荷電力特性)</p> <p>Object _____</p>		<p>Load Type A</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																																			
<p>1. Graph</p> <p>—△— Input Volt. 170 V</p> <p>---□--- Input Volt. 200 V</p> <p>-○- Input Volt. 264 V</p> <p>Note: Slanted line shows the range of the rated load power. (注) 斜線は定格電力範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Input Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.355</td><td>0.324</td><td>0.317</td></tr> <tr><td>130</td><td>1.268</td><td>1.091</td><td>0.885</td></tr> <tr><td>260</td><td>2.105</td><td>1.810</td><td>1.426</td></tr> <tr><td>390</td><td>2.982</td><td>2.544</td><td>1.984</td></tr> <tr><td>520</td><td>3.887</td><td>3.306</td><td>2.563</td></tr> <tr><td>650</td><td>4.814</td><td>4.083</td><td>3.148</td></tr> <tr><td>715</td><td>5.290</td><td>4.484</td><td>3.445</td></tr> <tr><td>---</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td><td>---</td><td>---</td></tr> <tr><td>---</td><td>---</td><td>---</td><td>---</td></tr> </tbody> </table>	Load Power [W]	Input Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	0.355	0.324	0.317	130	1.268	1.091	0.885	260	2.105	1.810	1.426	390	2.982	2.544	1.984	520	3.887	3.306	2.563	650	4.814	4.083	3.148	715	5.290	4.484	3.445	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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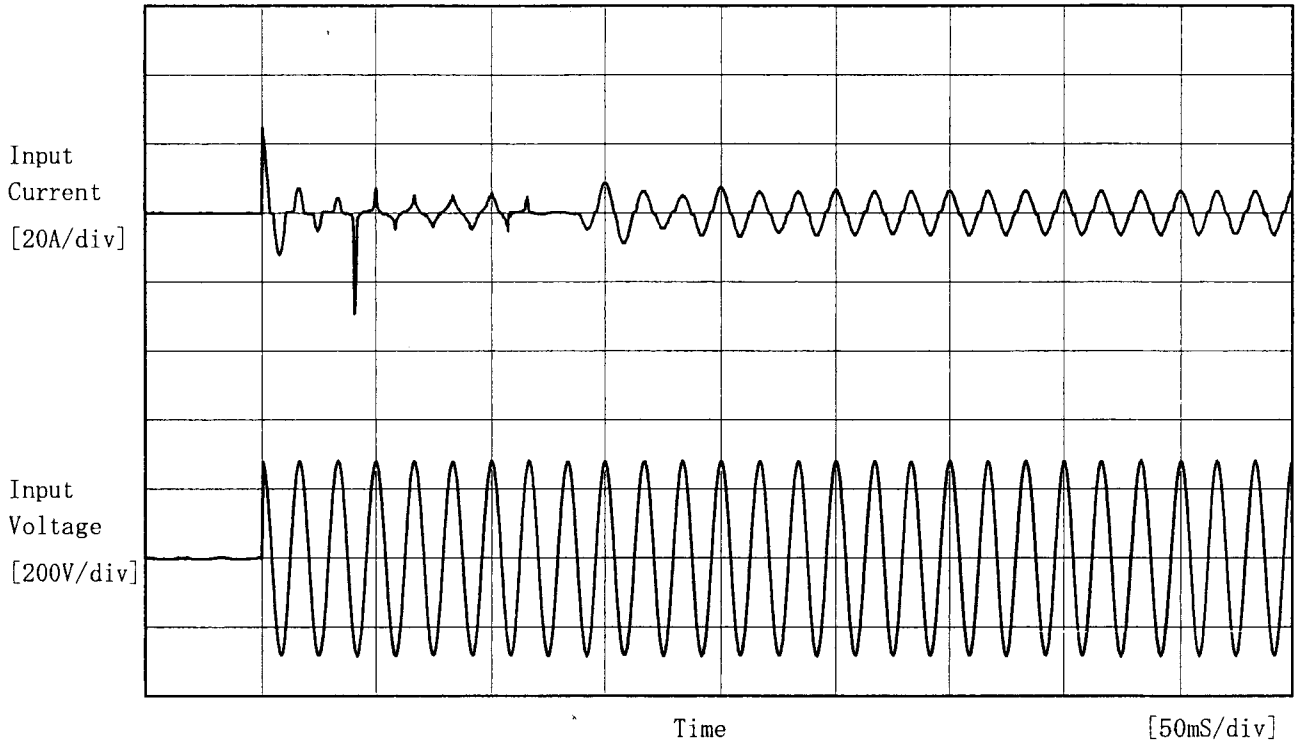
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<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy. Note: Slanted line shows the range of the rated load power.</p> <p>出力保持時間とは、入力電圧断から出力電圧が定電圧精度の範囲を保持しているところまでの時間。 (注) 斜線は定格電力範囲を示す。</p>																																																							



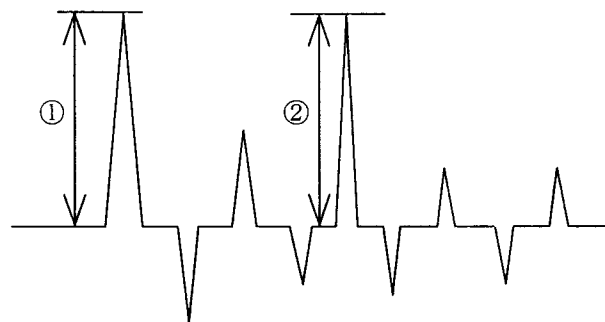
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<p> \triangle — Input Volt. 170V \square --- Input Volt. 200V \circ - - Input Volt. 264V </p> <p style="text-align: center;">Load Power [W]</p>				<table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Time [mS]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>130</td><td>155</td><td>161</td><td>153</td></tr> <tr><td>260</td><td>84</td><td>87</td><td>88</td></tr> <tr><td>390</td><td>53</td><td>56</td><td>61</td></tr> <tr><td>520</td><td>37</td><td>40</td><td>45</td></tr> <tr><td>650</td><td>31</td><td>32</td><td>34</td></tr> <tr><td>715</td><td>28</td><td>29</td><td>31</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>				Load Power [W]	Time [mS]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0	—	—	—	130	155	161	153	260	84	87	88	390	53	56	61	520	37	40	45	650	31	32	34	715	28	29	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Model	ACE650F	Load Type	A
Item	Inrush Current 突入電流	Temperature	25°C
Object	_____	Testing Circuitry	Figure A



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 24.8 [A]
 ② 28.2 [A]

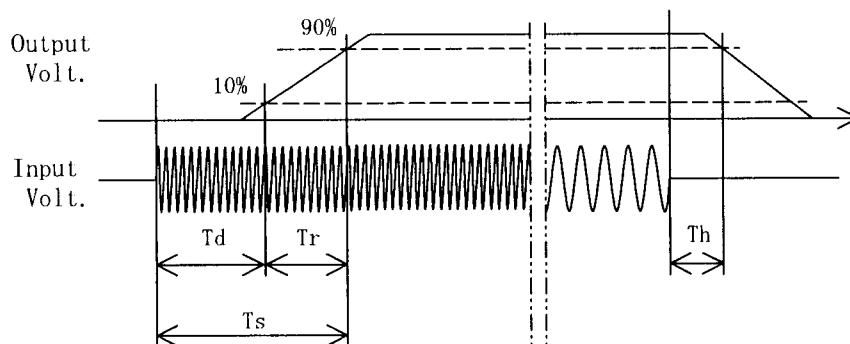




Model	ACE650F	Load Type	A
Item	Rise and Fall Time 立ち上り、立下り時間	Temperature	25°C
Object		Testing Circuitry	Figure A

Input Volt. 200 V

Load power 100%



[mS]

Module \ Time	T d	T r	T s	T h
150W, SINGLE	126	3~22	129~148	38
50W, SINGLE	126	8~30	134~156	39
75W, DUAL	124	10~30	134~154	38
300W, SINGLE	123	2~22	125~145	39
100W, DUAL (INSULATION)	125	5~26	130~151	40
150W, DUAL	125	15~32	140~157	39



Model		ACE650F	Load Type Testing Circuitry	B Figure A																																						
Item		Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																								
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1. Graph			2. Values																																							
<p style="text-align: center;"> □ Load 50% △ Load 100% </p>			<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th> <th colspan="2">Input Voltage [V]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>-20</td><td>73</td><td>73</td></tr> <tr><td>-10</td><td>73</td><td>73</td></tr> <tr><td>0</td><td>73</td><td>73</td></tr> <tr><td>10</td><td>73</td><td>74</td></tr> <tr><td>20</td><td>73</td><td>74</td></tr> <tr><td>25</td><td>73</td><td>74</td></tr> <tr><td>30</td><td>73</td><td>74</td></tr> <tr><td>40</td><td>73</td><td>74</td></tr> <tr><td>50</td><td>74</td><td>74</td></tr> <tr><td>60</td><td>74</td><td>74</td></tr> <tr><td>70</td><td>74</td><td>74</td></tr> </tbody> </table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	73	73	-10	73	73	0	73	73	10	73	74	20	73	74	25	73	74	30	73	74	40	73	74	50	74	74	60	74	74	70	74	74
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Model		ACE650F	Load Type	A
Item		Leakage Current 漏洩電流	Temperature	25°C
Object		_____	Testing Circuitry	Figure B

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DEN-AN	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.55	0.77	0.90

2. Condition

Leakage current value is concluded after measuring each phases of AC input and by choosing the larger one.

交流入力各相について測定し、その大きい方を漏洩電流測定値とする。



Model		ACE650F	Temperature		25°C
Item		Line Noise Tolerance 入力雑音耐量	Testing Circuitry		Figure C
Object		_____			

1. Conditions

- Input Voltage : 200 V
- Pulse Voltage : 2000 V
- Pulse Cycle : 10 mS
- Pulse Input Duration : 1 min. or more
- Load : 100 %

2. Results

Pulse Width [nS]	MODE		No protection failure should occur	DC-like Regulation of Output Voltage
		POLARITY	保護回路の誤動作がない	出力電圧の直流的変動
50	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation
1000	COMMON	+	OK	no fluctuation
		-	OK	no fluctuation
	NORMAL	+	OK	no fluctuation
		-	OK	no fluctuation

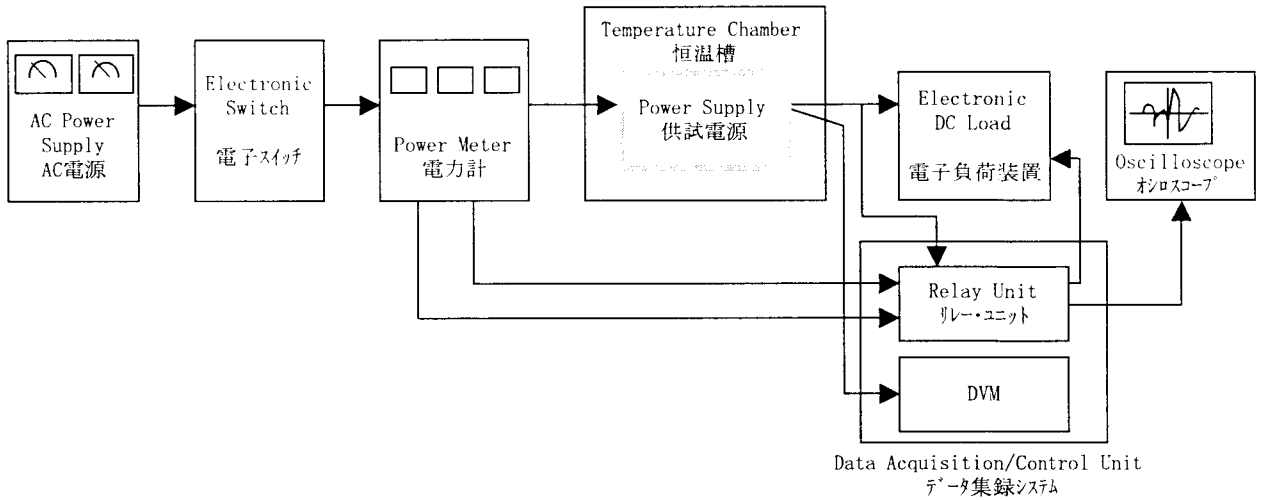


Figure A

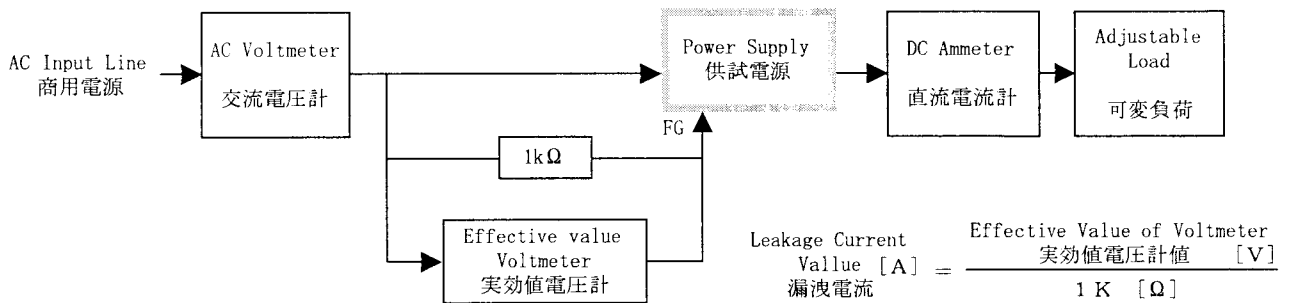


Figure B (DENTORI)

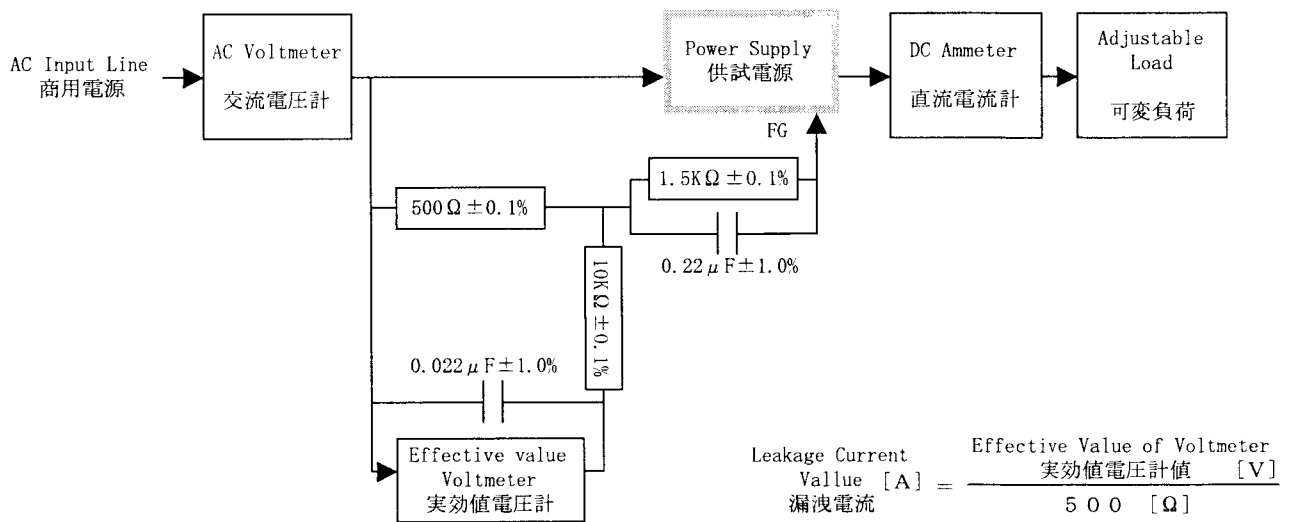


Figure B (IEC60950)

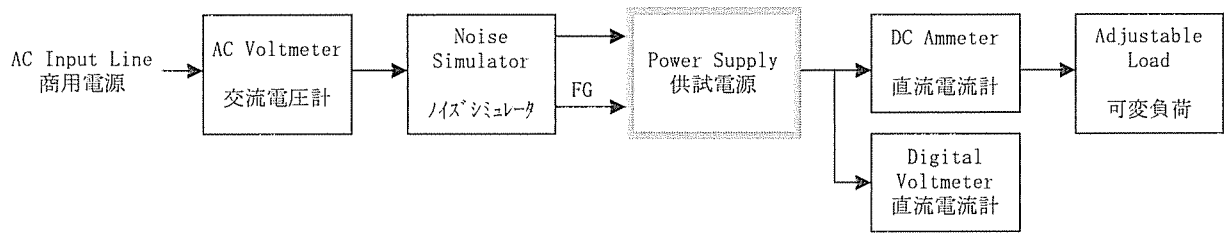


Figure C